## CLAIMS

	1.	Compoun	ds whi	ich bind	the	G-qua	adrupl	ex
structure	of	telomers,	chara	acterize	d in	that	they	
correspond	d to	the foll	owing	general	for	mula:		

5 nitrogen-containing aromatic ring - NR<sub>3</sub> - distribution agent - NR'<sub>3</sub> - aromatic ring

in which

• the nitrogen-containing aromatic ring represents:

10

♦ a quinoline optionally substituted with at least one group N(Ra)(Rb) in which Ra and Rb, which are identical or different, represent hydrogen or a short-chain C1-C4 alkyl and/or alkoxy radical and/or

15

- ◊ a quinoline possessing a nitrogen atom in quaternary form or
  - ♦ a benzamidine or
  - ◊ a pyridine
- the aromatic ring represents

20

♦ a quinoline optionally substituted with at least one group N(Ra)(Rb) in which Ra and Rb, which are identical or different, represent hydrogen or a short-chain C1-C4 alkyl and/or alkoxy radical and/or

- ◊ a quinoline possessing a nitrogen atom in quaternary form or
  - ◊ a benzamidine or
  - ◊ a pyridine or

◊ a phenyl ring optionally substituted at the meta or para position with a halogen group, C1-C4 alkoxy group, cyano group, carbonylamino group optionally substituted with one or more C1-C4 alkyl groups, guanyl groups, C1-C4 alkylthio groups, amino groups, C1-C4 alkylamino groups, C1-C4 dialkylamino groups for each alkyl group, nitro group, alkyleneamino group or alkenyleneamino group or ◊ a mono- or bi- or tricyclic heterocyclic ring comprising 0 to 2 heteroatoms per ring provided that at least one heteroatom is present in at least one ring optionally substituted with one or more C1-C4 alkyl groups or with alkylene or alkenylene groups

R3 and R'3, which are identical or different, represent independently of one another hydrogen or a C1-C4 alkyl radical
the distribution agent represents:

a triazine group optionally
 substituted with an alkyl radical
 having 1 to 4 carbon atoms, a thio,
 oxy or amino radical which are

themselves optionally substituted with one or more short-chain alkyl chains

5

10

15

20

containing 1 to 4 carbon atoms or a halogen atom or

- ◊ a carbonyl group or
- ♦ a group C(=NH)-NH-C(=NH) or

- 2. Compounds according to Claim 1, characterized in that the distribution agent is chosen from the triazine or diazine groups.
- Compounds according to Claim 2, characterized in that the diazine groups are
   pyrimidines.
  - 4. Compounds according to Claim 1, characterized in that they correspond to formula (I) below:

20

5

in which:

- A represents
- an amino group of formula NR1R2 in which R1 and R2, which are identical or

different, represent hydrogen or a straight or branched alkyl group containing 1 to 4 carbon atoms or

- a group OR1 or SR1 in which R1 has the same meaning as above or
- an alkyl group containing 1 to 4
   carbon atoms or a trifluoromethyl group or
  - a hydrogen atom or
- a halogen atom chosen from fluorine, chlorine, bromine or iodine
- R3 and R'3, which are identical or different, represent independently of one another hydrogen or a C1-C4 alkyl group  $Ar_1$  and  $Ar_2$ , which are identical or

different, represent

- 1. when Ar<sub>1</sub> and Ar<sub>2</sub> are identical:
  - a quinoline motif optionally substituted with at least one group N(Ra)(Rb) in which Ra and Rb, which are identical or different, represent hydrogen or a short-chain alkyl and/or alkoxy radical containing 1 to 4 carbon atoms or
  - a quinoline possessing a nitrogen atom in quaternary form or
  - a benzamidine or
  - a pyridine attached at the 4-position or fused with an aryl or heteroaryl

10

5

15

20

group optionally substituted with a C1-C4 alkyl group

- 2. when Ar<sub>1</sub> and Ar<sub>2</sub> are different
  - ullet Ar<sub>1</sub> and Ar<sub>2</sub> both represent one of the possibilities mentioned above for Ar<sub>1</sub> and Ar<sub>2</sub> or
  - Ar<sub>1</sub> represents one of the above possibilities and Ar<sub>2</sub> represents
  - \* a phenyl ring optionally substituted at the meta or para position with a halogen group, C1-C4 alkoxy group, cyano group, carbonylamino group optionally substituted with one or more C1-C4 alkyl groups, guanyl groups, C1-C4 alkylthio groups, amino groups, C1-C4 alkylamino groups, C1-C4 dialkylamino groups for each alkyl group, nitro group, alkyleneamino group or alkenyleneamino group
  - \* a mono- or bi- or tricyclic heterocyclic ring comprising 0 to 2
    heteroatoms per ring provided that at
    least one heteroatom is present in at
    least one ring optionally substituted
    with one or more C1-C4 alkyl groups or
    with alkylene or alkenylene groups

or one of its salts.

10

5

15

20

- 5. Compounds according to Claim 3, characterized in that Ar<sub>1</sub> and Ar<sub>2</sub> represent a group chosen from the following groups: 4-amino- or 4-methylamino- or 4-dimethylamino-quinolyl or -quinolinium in which the quinolinium ring is optionally substituted with a methyl group.
- Compounds according to Claim 1,
   characterized in that the groups R1 and R2 represent
   the methylthio, amino, alkylamino or dialkylamino
   radical, in which radicals the alkyl groups possess 1
   to 4 carbon atoms.
  - 7. Compounds according to Claim 2, characterized in that A represents a methylthio group.
- 8. Compounds of Claim 1, characterized in 15 that they have a telomerase-inhibiting activity.
  - 9. Compounds according to any one of the preceding claims, characterized in that they have an anticancer activity.
- 10. Novel compounds corresponding to the 20 following formula (I):

in which:

- an amino group of formula NR1R2 in which R1 and R2, which are identical or different, represent a straight or branched alkyl group containing 1 to 4 carbon atoms or
- a group OR1 or SR1 in which R1 represents hydrogen or has the same meaning as above or
- an alkyl group containing 1 to 4
   carbon atoms or a trifluoromethyl group or
  - a hydrogen atom or
- a halogen atom chosen from fluorine, chlorine, bromine or iodine
- R3 and R'3, which are identical or different, represent independently of one another a hydrogen atom or a C1-C4 alkyl group
- $Ar_1$  and  $Ar_2$ , which are identical or different, represent
- 1. when Ar<sub>1</sub> and Ar<sub>2</sub> are identical:
  - a quinoline motif optionally substituted with at least one group N(Ra)(Rb) in which Ra and Rb, which are identical or different, represent hydrogen or a short-chain alkyl and/or alkoxy radical containing 1 to 4 carbon atoms and/or
  - a quinoline possessing a nitrogen atom in quaternary form or

10

15

20

- a benzamidine except in the case where
   A represents diethylamine, hydrogen or
   an amine group
- a pyridine attached at the 4-position or fused with an aryl or heteroaryl group optionally substituted with a C1-C4 alkyl group
- 2. when Ar<sub>1</sub> and Ar<sub>2</sub> are different
  - ullet Ar<sub>1</sub> and Ar<sub>2</sub> both represent one of the possibilities mentioned above for Ar<sub>1</sub> and Ar<sub>2</sub> or
  - Ar<sub>1</sub> represents one of the above possibilities and Ar<sub>2</sub> represents
  - \* a phenyl ring optionally substituted at the meta or para position with a halogen group, C1-C4 alkoxy group, cyano group, carbonylamino group optionally substituted with one or more C1-C4 alkyl groups, guanyl groups, C1-C4 alkylthio groups, amino groups, C1-C4 alkylamino groups, C1-C4 dialkylamino groups for each alkyl group, nitro group, alkyleneamino group or alkenyleneamino group
  - \* a mono- or bi- or tricyclic heterocyclic ring comprising 0 to 2 heteroatoms per ring provided that at least one heteroatom is present in at

10

15

20

least one ring optionally substituted with one or more C1-C4 alkyl groups or with alkylene or alkenylene groups

or one of its salts excluding 2-amino-bis-4,6-[(4'-

- 5 amino-6'-quinaldinyl)amino]triazine dihydrochloride and 2-amino-bis-4,6-(p-amidinoanilino)triazine dihydrochloride.
- 11. Compounds according to Claim 10, characterized in that when  ${\rm Ar_1}$  and  ${\rm Ar_2}$  are identical,
- 10 Ar<sub>1</sub> and Ar<sub>2</sub> represent a group chosen from 4-amino- or 4-methylamino- or 4-dimethylamino-quinolyl or -quinolinium groups in which the quinolinium ring is optionally substituted with a methyl group.
  - 12. Compounds according to Claim 10,
- 15 characterized in that R1 and R2 represent hydrogen.
  - 13. Compounds according to Claim 10, characterized in that A represents a methylthio group.
  - 14. Compounds according to Claim 10, characterized in that when  ${\rm Ar_1}$  and  ${\rm Ar_2}$  are different
- 1. Ar<sub>1</sub> represents:
  - a quinoline motif substituted with at least one group N(Ra)(Rb) in which Ra and Rb, which are identical or different, represent hydrogen or a short-chain alkyl or alkoxy radical containing 1 to 4 carbon atoms and/or
  - a quinoline possessing a nitrogen atom in quaternary form or

- a benzamidine except in the case where
   A represents diethylamine, hydrogen or
   an amine group or
- a pyridine attached at the 4-position or fused with an aryl or heteroaryl group

## 2. Ar<sub>2</sub> represents

\* a ring as defined above but different or

\* a phenyl ring optionally substituted at the meta or para position with a halogen, methoxy, cyano, carbonylamino, guanyl, methylthio, amino, methylamino, dimethylamino, morpholine, alkyleneamino or alkenyleneamino group

\* a quinoline, benzimidazole, indole, benzothiophene, benzofuran, benzothiazol, benzoxazol, carbazol, quinazoline or quinoxaline ring optionally substituted with one or more C1-C4 alkyl groups or with alkylene or alkenylene groups

or one of its salts excluding 2-amino-bis
4,6-[(4'-amino-6'-quinaldinyl)amino]triazine dihydrochloride and 2-amino-bis-4,6-(p-amidinoanilino)triazine.

5

10

15

15.

25

dihydrochloride

pentane-1,5-diamine diiodide

Compounds according to Claim 10 chosen

from: - 2-amino-bis-4,6-[(1'-methyl-4'-amino-6'-quinaldinio)amino]triazine dichloride 5 - 2-amino-bis-4,6-[(1'-ethyl-4'-amino-6'-quinaldinio)amino]triazine dichloride - 2-dimethylamino-bis-4,6-[(1'-methyl-4'-amino-6'-quinaldinio)amino]triazine dichloride - 2-methylamino-bis-4,6-[(4'-amino-10 6'-quinaldinyl)amino]triazine trihydrochloride - 2-amino-bis-4,6-[(1'-methyl-6'-quinolinio)amino]triazine dichloride - 2-methylamino-bis-4,6-[(4'-methylamino-6'-quinaldinyl)amino]triazine dichloride 15 trihydrochloride - 2-amino-bis-4,6-[(9'-amino-10'-methyl-2'-acridinio)amino|triazine dichloride hydrochloride - 2-methylthio-bis-4,6-[(1'-methyl-4'-amino-6'-quinaldinio)amino]triazine dichloride 2.0 - 2-chloro-bis-4,6-[(4'-dimethylamino-6'-quinaldinyl)amino]triazine dihydrochloride dihydrate - 2-methylthio-bis-4,6-[(4'-dimethylamino-6'-quinaldinyl)amino]triazine hydrate - N,N'-(4-amino-6-quinaldinyl)urea

- N<sup>1</sup>, N<sup>5</sup>-bis (7-chloro-1-methyl-4-quinolinio) -

- bis-2,4-[(4'-amino-6'-quinaldinyl)amino]pyrimidine trihydrochloride pentahydrate
- 1,5-(4'-amino-6'-quinaldinyl)biguanide trihydrochloride dihydrate.
- 5 16. Compounds according to Claim 15 chosen from:
  - 2-methylthio-bis-4,6-[(4'-dimethylamino-6'-quinaldinyl)amino]triazine hydrate
    - 2-chloro-bis-4,6-[(4'-dimethylamino-
- 10 6'-quinaldinyl)amino]triazine dihydrochloride dihydrate
  - 6-[4-(4-amino-2-methylquinolin-6-ylamino)-6-methylsulphanyl-[1,3,5]triazin-2-ylamino]-2-methylquinolin-4-ol
    - N6-[4-(4-dimethylamino-2-methylquinolin-
- 6-ylamino)-6-methylsulphanyl-[1,3,5]triazin-2-yl]-2-methylquinoline-4,6-diamine
  - N6-[4-(4-amino-2-methylquinolin-6-ylamino)-6-methylsulphanyl-[1,3,5]triazin-2-yl]-2-methyl-quinoline-4,6-diamine
- N6-[4-(4-methoxy-2-methylquinolin-6-ylamino)-6-methylsulphanyl-[1,3,5]triazin-2-yl]-4-methoxy-2-methylquinolin-6-amine.
  - 17. Use of the compounds of Claim 10 as pharmaceutical product for human use.
- 25 18. Therapeutic combinations consisting of a compound according to Claim 1 and of another anticancer compound.

- 19. Combinations according to Claim 18, characterized in that the anticancer compound is chosen from alkylating agents, platinum derivatives, antibiotic agents, antimicrotubule agents,
- 5 anthracyclines, group I and II topoisomerases, fluoropyrimidines, cytidine analogues, adenosine analogues, various enzymes and compounds such as L-asparaginase, hydroxyurea, trans-retinoic acid, suramine, irinotecan, topotecan, dexrazoxane,
- androgenic hormones.
  - 20. Therapeutic combination consisting of a compound according to Claim 1 and of radiation.
- 21. Combinations according to any one of
  15 Claims 18 to 20, characterized in that each of the
  compounds or treatments is administered simultaneously,
  separately or sequentially.